

WHAT IS CLAIMED IS:

- 1505  
A2 1. A hub document preparation method for preparing  
2 a hub document which describes entity declarations for  
3 referring to entities of a plurality of structured  
4 documents individually corresponding to a plurality  
5 of non-structured documents in order to prepare a  
6 single hub document format structured document from  
7 the plurality of non-structured documents, comprising  
8 the steps of:
- 9 setting in advance an original document storage  
10 area for storing the non-structured documents and a  
11 structured document storage area for storing  
12 structured documents obtained by conversion of the  
13 non-structured documents;
- 14 storing, each time one of the plurality of  
15 non-structured documents to be included in the hub  
16 document format structured document is prepared or  
17 edited, the non-structured document into the original  
18 document storage area;
- 19 converting the non-structured documents stored  
20 in the original document storage area into structured  
21 documents and storing the structured documents into  
22 the structured document storage area;
- 23 acquiring document names of the plurality of  
24 structured documents stored in the structured document  
25 storage area and preparing entity declarations for

26 referring to entities of the structured documents; and  
27 preparing the hub document based on the entity  
28 declarations regarding the structured documents.

1 2. A hub document preparation method as claimed in  
2 claim 1, wherein, in addition to the original document  
3 storage area and the structured document storage area,  
4 an attachment file storage area for storing attachment  
5 files attached to the non-structured documents and  
6 entity declarations regarding the attachment files is  
7 set in advance, and, upon preparation or editing of  
8 any of the plurality of structured documents to be  
9 included in the hub document format structured  
10 document, if an attachment file is attached to the  
11 non-structured document, then the attachment file is  
12 stored into the attachment file storage area and an  
13 entity declaration for referring to an entity of the  
14 attachment file is prepared and stored into the  
15 attachment file storage area, and then the entity  
16 declarations regarding the attachment files stored in  
17 the attachment file storage area are extracted and the  
18 hub document is prepared based on the entity  
19 declarations regarding the attachment files and the  
20 entity declarations regarding the structured  
21 documents.

1 3. A hub document preparation method as claimed in

2 claim 1, wherein, in addition to the original document  
3 storage area and the structured document storage area,  
4 an attachment file storage area for storing attachment  
5 files attached to the non-structured documents and an  
6 entity declaration storage area for storing entity  
7 declarations regarding the attachment files are set  
8 in advance, and, upon preparation or editing of any  
9 of the plurality of non-structured documents to be  
10 included in the hub document format structured  
11 document, if an attachment file is attached to the  
12 non-structured document, then the attachment file is  
13 stored into the attachment file storage area and an  
14 entity declaration for referring to an entity of the  
15 attachment file is prepared and stored into the  
16 attachment file storage area, and then the entity  
17 declarations regarding the attachment files stored in  
18 the entity declaration storage areas are extracted and  
19 the hub document is prepared based on the entity  
20 declarations regarding the attachment files and the  
21 entity declarations regarding the structured  
22 documents.

1 4. A hub document preparation method as claimed in  
2 claim 1, wherein the entity declarations of the  
3 structured documents have file names same as file names  
4 of the original non-structured documents individually  
5 corresponding to the structured documents.

1 5. A hub document preparation method as claimed in  
2 claim 2, wherein the entity declarations of the  
3 structured documents have file names same as file names  
4 of the original non-structured documents individually  
5 corresponding to the structured documents.

1 6. A hub document preparation method as claimed in  
2 claim 3, wherein the entity declarations of the  
3 structured documents have file names same as file names  
4 of the original non-structured documents individually  
5 corresponding to the structured documents.

1 7. A hub document preparation method as claimed in  
2 claim 1, wherein the entity declarations regarding the  
3 attachment files stored in the entity declaration  
4 storage area have file names same as file names of the  
5 non-structured documents to which the attachment files  
6 are attached.

1 8. A hub document preparation method as claimed in  
2 claim 2, wherein the entity declarations regarding the  
3 attachment files stored in the entity declaration  
4 storage area have file names same as file names of the  
5 non-structured documents to which the attachment files  
6 are attached.

1 9. A hub document preparation method as claimed in  
2 claim 3, wherein the entity declarations regarding the  
3 attachment files stored in the entity declaration  
4 storage area have file names same as file names of the  
5 non-structured documents to which the attachment files  
6 are attached.

1 10. A hub document preparation method as claimed in  
2 claim 4, wherein the entity declarations regarding the  
3 attachment files stored in the entity declaration  
4 storage area have file names same as file names of the  
5 non-structured documents to which the attachment files  
6 are attached.

1 11. A hub document preparation method as claimed in  
2 claim 5, wherein the entity declarations regarding the  
3 attachment files stored in the entity declaration  
4 storage area have file names same as file names of the  
5 non-structured documents to which the attachment files  
6 are attached.

1 12. A hub document preparation method as claimed in  
2 claim 6, wherein the entity declarations regarding the  
3 attachment files stored in the entity declaration  
4 storage area have file names same as file names of the  
5 non-structured documents to which the attachment files  
6 are attached.

1 13. A hub document preparation method as claimed in  
2 claim 1, wherein the attachment files are graphic files  
3 each of which includes graphic information.

1 14. A hub document preparation method as claimed in  
2 claim 2, wherein the attachment files are graphic files  
3 each of which includes graphic information.

1 15. A hub document preparation method as claimed in  
2 claim 3, wherein the attachment files are graphic files  
3 each of which includes graphic information.

1 16. A hub document preparation method as claimed in  
2 claim 4, wherein the attachment files are graphic files  
3 each of which includes graphic information.

1 17. A hub document preparation method as claimed in  
2 claim 5, wherein the attachment files are graphic files  
3 each of which includes graphic information.

1 18. A hub document preparation method as claimed in  
2 claim 6, wherein the attachment files are graphic files  
3 each of which includes graphic information.

1 19. A hub document preparation method as claimed in  
2 claim 7, wherein the attachment files are graphic files

3 each of which includes graphic information.

1 20. A hub document preparation method as claimed in  
2 claim 8, wherein the attachment files are graphic files  
3 each of which includes graphic information.

1 21. A hub document preparation method as claimed in  
2 claim 9, wherein the attachment files are graphic files  
3 each of which includes graphic information.

1 22. A hub document preparation method as claimed in  
2 claim 10, wherein the attachment files are graphic  
3 files each of which includes graphic information.

1 23. A hub document preparation method as claimed in  
2 claim 11, wherein the attachment files are graphic  
3 files each of which includes graphic information.

1 24. A hub document preparation method as claimed in  
2 claim 12, wherein the attachment files are graphic  
3 files each of which includes graphic information.

1 25. A hub document preparation method as claimed in  
2 claim 1, wherein the structured documents are Standard  
3 Generalized Markup Language documents whose document  
4 structure is defined by a Document Type Definition.

1 26. A hub document preparation method as claimed in  
2 claim 2, wherein the structured documents are Standard  
3 Generalized Markup Language documents whose document  
4 structure is defined by a Document Type Definition.

1 27. A hub document preparation method as claimed in  
2 claim 3, wherein the structured documents are Standard  
3 Generalized Markup Language documents whose document  
4 structure is defined by a Document Type Definition.

1 28. A hub document preparation method as claimed in  
2 claim 4, wherein the structured documents are Standard  
3 Generalized Markup Language documents whose document  
4 structure is defined by a Document Type Definition.

1 29. A hub document preparation method as claimed in  
2 claim 5, wherein the structured documents are Standard  
3 Generalized Markup Language documents whose document  
4 structure is defined by a Document Type Definition.

1 30. A hub document preparation method as claimed in  
2 claim 6, wherein the structured documents are Standard  
3 Generalized Markup Language documents whose document  
4 structure is defined by a Document Type Definition.

1 31. A hub document preparation method as claimed in  
2 claim 7, wherein the structured documents are Standard



3 Generalized Markup Language documents whose document  
4 structure is defined by a Document Type Definition.

1 32. A hub document preparation method as claimed in  
2 claim 8, wherein the structured documents are Standard  
3 Generalized Markup Language documents whose document  
4 structure is defined by a Document Type Definition.

1 33. A hub document preparation method as claimed in  
2 claim 9, wherein the structured documents are Standard  
3 Generalized Markup Language documents whose document  
4 structure is defined by a Document Type Definition.

1 34. A hub document preparation method as claimed in  
2 claim 10, wherein the structured documents are  
3 Standard Generalized Markup Language documents whose  
4 document structure is defined by a Document Type  
5 Definition.

1 35. A hub document preparation method as claimed in  
2 claim 11, wherein the structured documents are  
3 Standard Generalized Markup Language documents whose  
4 document structure is defined by a Document Type  
5 Definition.

1 36. A hub document preparation method as claimed in  
2 claim 12, wherein the structured documents are

3 Standard Generalized Markup Language documents whose  
4 document structure is defined by a Document Type  
5 Definition.

1 37. A hub document preparation method as claimed in  
2 claim 13, wherein the structured documents are  
3 Standard Generalized Markup Language documents whose  
4 document structure is defined by a Document Type  
5 Definition.

1 38. A hub document preparation method as claimed in  
2 claim 14, wherein the structured documents are  
3 Standard Generalized Markup Language documents whose  
4 document structure is defined by a Document Type  
5 Definition.

1 39. A hub document preparation method as claimed in  
2 claim 15, wherein the structured documents are  
3 Standard Generalized Markup Language documents whose  
4 document structure is defined by a Document Type  
5 Definition.

1 40. A hub document preparation method as claimed in  
2 claim 16, wherein the structured documents are  
3 Standard Generalized Markup Language documents whose  
4 document structure is defined by a Document Type  
5 Definition.

1 41. A hub document preparation method as claimed in  
2 claim 17, wherein the structured documents are  
3 Standard Generalized Markup Language documents whose  
4 document structure is defined by a Document Type  
5 Definition.

1 42. A hub document preparation method as claimed in  
2 claim 18, wherein the structured documents are  
3 Standard Generalized Markup Language documents whose  
4 document structure is defined by a Document Type  
5 Definition.

1 43. A hub document preparation method as claimed in  
2 claim 19, wherein the structured documents are  
3 Standard Generalized Markup Language documents whose  
4 document structure is defined by a Document Type  
5 Definition.

1 44. A hub document preparation method as claimed in  
2 claim 20, wherein the structured documents are  
3 Standard Generalized Markup Language documents whose  
4 document structure is defined by a Document Type  
5 Definition.

1 45. A hub document preparation method as claimed in  
2 claim 21, wherein the structured documents are

3 Standard Generalized Markup Language documents whose  
4 document structure is defined by a Document Type  
5 Definition.

1 46. A hub document preparation method as claimed in  
2 claim 22, wherein the structured documents are  
3 Standard Generalized Markup Language documents whose  
4 document structure is defined by a Document Type  
5 Definition.

1 47. A hub document preparation method as claimed in  
2 claim 23, wherein the structured documents are  
3 Standard Generalized Markup Language documents whose  
4 document structure is defined by a Document Type  
5 Definition.

1 48. A hub document preparation method as claimed in  
2 claim 24, wherein the structured documents are  
3 Standard Generalized Markup Language documents whose  
4 document structure is defined by a Document Type  
5 Definition.